

1. Background

Earthquake: 1.6 million in 2022-2023

Population: 1.4 billion in 2022-2023

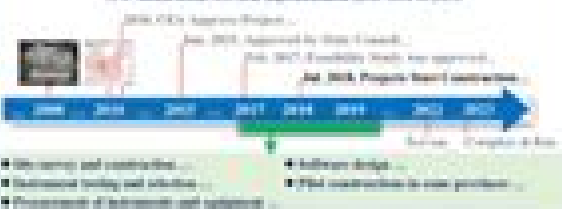
Extremely serious earthquake threat

- 1. 2023 M6.0+ large earthquakes in the Sichuan region
- 2. The average population loss is 100,000 in the Sichuan region
- 3. 2022 M6.0+ large earthquakes in the Sichuan region
- 4. 2022 M6.0+ large earthquakes in the Sichuan region

EEW is an effective way for mitigating seismic disaster risk

- 1. It is one of the world's most serious seismic disasters and requires early warning or mitigation
- 2. The EEW system is the first EEW system in the world
- 3. China's national EEW system is the first EEW system in the world
- 4. China's national EEW system is the first EEW system in the world

National System for Rapid Internet Seismic Report and Earthquake Early Warning Project of China Earthquake Administration



2. System structure



Fig.1 Processing flowchart presenting the system architecture of the Chinese national EEW

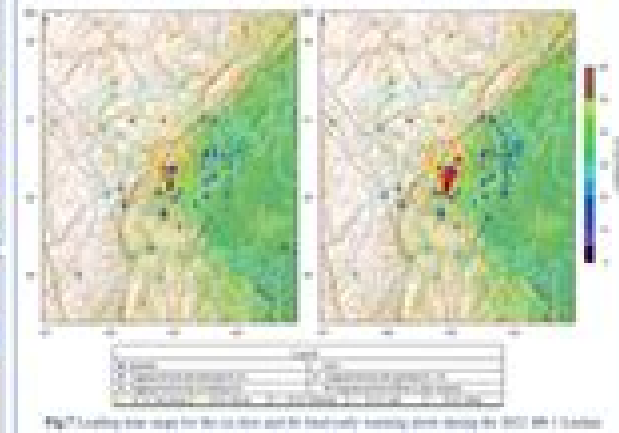
Table 1. Alarm levels defined according to predicted final intensity

Estimated final intensity	Standard	Phenomenon	Color of light	Icon
4.0-4.5	III	III	Blue	Blue circle
4.5-5.0	II	II	Yellow	Yellow circle
5.0-5.5	I	I	Orange	Orange circle
5.5-6.0	0	0	Red	Red circle

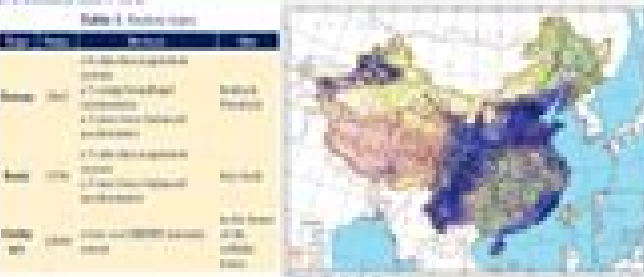
4.1 Theoretical short performance from the station's point of view



4.2 Real short performance from the early warning terminal's point of view



2. Seismic network



4. Performance during M6.0+ earthquakes occurred in 2022-2023

4.1 Real-time source characterization

Eq.	Region	Year	Time	Lat	Lon	Depth	Magnitude	Station	Time	Time	Time
2022	1	1	1	1	1	1	1	1	1	1	1
2023	1	1	1	1	1	1	1	1	1	1	1

Table 2. Short characteristics of the stations and their response systems used in the project

Station	Short characteristics
Station 1	Station 1 is a station with a response system used in the project.
Station 2	Station 2 is a station with a response system used in the project.
Station 3	Station 3 is a station with a response system used in the project.
Station 4	Station 4 is a station with a response system used in the project.
Station 5	Station 5 is a station with a response system used in the project.
Station 6	Station 6 is a station with a response system used in the project.
Station 7	Station 7 is a station with a response system used in the project.
Station 8	Station 8 is a station with a response system used in the project.
Station 9	Station 9 is a station with a response system used in the project.
Station 10	Station 10 is a station with a response system used in the project.

5. Conclusions and future work

Although the EEW system has been established, there are still many problems that need to be addressed in future applications. The results showed that most aspects of the EEW presented a robust performance, with obvious strong detection and early warning information releasing.

Further improvement

- 1. Use the length of the current time resolution of each triggered station as weight for magnitude estimation.
- 2. Explore the potential of using machine-learning-based algorithms for rapid, robust, and reliable magnitude estimation.
- 3. Limit the number of stations used for depth determination.
- 4. Consider the fault distances for avoiding serious ground motion misinterpretation for destructive earthquakes.
- 5. Add a network-operation disaster warning function before releasing the alert information.

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